12. Radio Frequency Exposure

12.1 Applicable Standards

	The available maximum time-averaged power is no more than 1 mW,								
§1.1307(b)(3)(i)(A)	regardless of separation distance.								
	SUBJECT TO ROU' RF Source Frequency			> λ /2 π. RESHOLDS FOR SINGLE R TINE ENVIRONMENTAL F Minimum Distance			LF SOURCES	erson and t	
§1.1307(b)(3)(i)(c)		f _L MHz		∫ _H MHz	KL / Zit		λ_{H} / 2π	W	
3111007 (2)(0)(1)(0)		0.3	_	1.34	159 m	_	35.6 m	1,920 R ²	
		1.34	_	30	35.6 m	_	1.6 m	$3,450 \text{ R}^2/f^2$	
		30	_	300	1.6 m	_	159 mm	3.83 R ²	
		300	_	1,500	159 mm	_	31.8 mm	0.0128 R ² f	
		1,500	_	100,00	31.8 mm	_	0.5 mm	19.2R ²	
		Subscripts L and H are low and high; λ is wavelength. From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.							
	Device operates b	etween	300	MHz ar	nd 6 GHz a	and	the maxim	num time-averaç	ged
	power or effective radiated power (ERP), whichever is greater, <= Pth								
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$								
	Where								
§ 1.1307(b)(3)(i)(B).	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz};$								
	and								
	$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$								
	d = the separation distance (cm);								

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12.2 EUT Specification

	☐ WLAN: 2412MHz ~ 2462MHz					
Frequency band						
(Operating)	☐ WLAN: 5470MHz ~ 5725MHz					
	☐ WLAN: 5725MHz ~ 5850MHz					
	Bluetooth: 2402MHz ~ 2480MHz					
Dovice estegery	☐ Portable (<20cm separation)					
Device category						
	Single antenna					
Antenna diversity	☐ Tx diversity					
	Rx diversity					
	☐ Tx/Rx diversity					
	☐ Blanket 1 mW Blanket Exemption					
Evaluation applied						
	☐ SAR-based Exemption					
Remark:						
The maximum conducted output power is 4.57Bm (2.864mW) at 2402MHz (with 4.6dBi						
antenna gain.)						

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12.3 Result

Modulation Mode	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max.Tune up e.r.p. Power (dBm)	Max. Tune up e.r.p power (mW)	Limit (mW)
GFSK	2402	4.57	5.07	4.6	7.52	5.65	3060

No non-compliance noted.

-----THE END OF REPORT-----

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